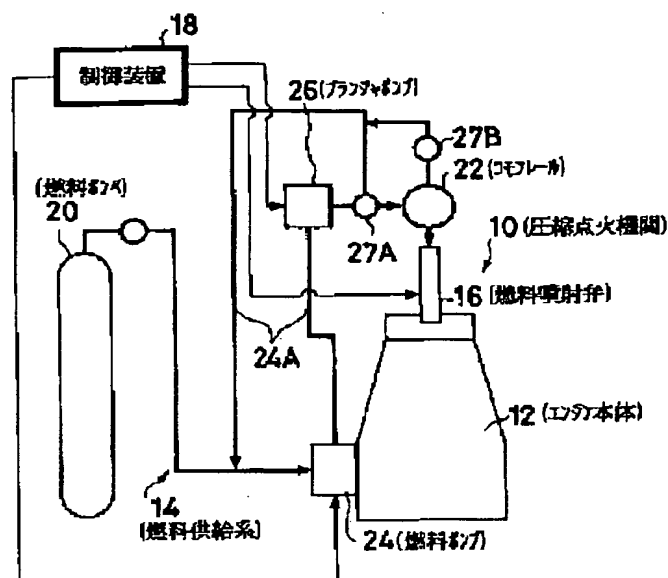


## Patent Abstracts of Japan

TITLE : FUEL, COMPRESSIVE IGNITION  
ENGINE, AND BURNER



**SOLUTION:** This fuel is obtained by mixing (A) 30-60 vol.% of pressurized and liquefied dimethyl ether and (B) 70-40 vol.% of a liquid hydrocarbon with each other; wherein the component B may be a light oil or liquefied natural gas. Furthermore, when the dimethyl ether is incorporated with carbon dioxide previously, or CO<sub>2</sub>-contg. crude dimethyl ether is used, the carbon dioxide is released when the dimethyl ether is depressurized and boils in air, thereby lowering the combustion temperature of this fuel, leading to suppressing NO<sub>x</sub> generation in its combustion, therefore being favorable. The 2nd objective compressive ignition engine is constructed in such a manner that this fuel is pressurized so as to liquefy the dimethyl ether and, in this state, is fed, from a fuel cylinder via a fuel feed pipe 14, to a fuel injection valve 16 and then injected into a fuel chamber.

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